

DDO-6599-59

29 September 1959

MEMORANDUM FOR: Deputy Director (Plans)

THROUGH : Acting Chief, DFO <sup>W B</sup>  
          Chief, Developments Branch, DFO

SUBJECT : Letter from [ ] Concerning Granger Jammer

1. The comments proffered by [ ] are compatible with the capabilities of the Granger Countermeasures Repeater. During the flight testing phase of the Granger Repeater program, this jammer demonstrated the ability to confuse AI radar steering presentations, and prematurely detonate I-band proximity fuse missiles. It must be pointed out, however, that there are certain operational limitations that must be imposed on these conclusions. Namely: (1) jamming will occur only on aircraft using the tail chase type of attack and falling within the half power cone of the jammer; no protection is offered against collision-course intercepts greater than 30° angle off and, (2) ground-to-air missiles probably would not attack within the cone limitations of the Granger equipment.

2. It must be further pointed out that to date, no conclusive testing has been accomplished using the U2C equipped with the J-75 engine. Preliminary tests indicate excessive temperatures in the drag chute compartment. Environmental testing will continue aiming to reduce this temperature to the acceptable level of 40°C. Once the temperature problem is solved, there is no reason for the Granger Jammer to function differently than in the airframe with the J-57 engine.

<sup>1.9</sup>  
[ ]  
Major, USAF

DDO-DD/P:RDHIFT:actb

Distribution:

- Cell - Addressee *w/1 cc ATCHMT*
- 1 - A/Ch/DFD *w/o ATCHMT*
- 1 - Ch/DB *w/o ATCHMT*
- 1 - DB - Hippert *w/o ATCHMT*
- 1 - RI *w/o ATCHMT*

Attachment - DD/P-4-8437

25 YEAR RE-REVIEW